

# THERMAL EXPANSION TANK (FLOOR MOUNTED)

**7.6.1.16.(1) Thermal Expansion.** Protection against thermal expansion shall be required when a *check valve* is required by Article 7.6.1.10., a *backflow preventer* is required by Article 7.6.2.2., or a pressure reducing valve is required by Article 7.6.3.3.

**A-7.6.1.16.(1) Thermal Expansion.** Closed water systems with no expansion to public water systems need to accommodate thermal expansion using one of the following:

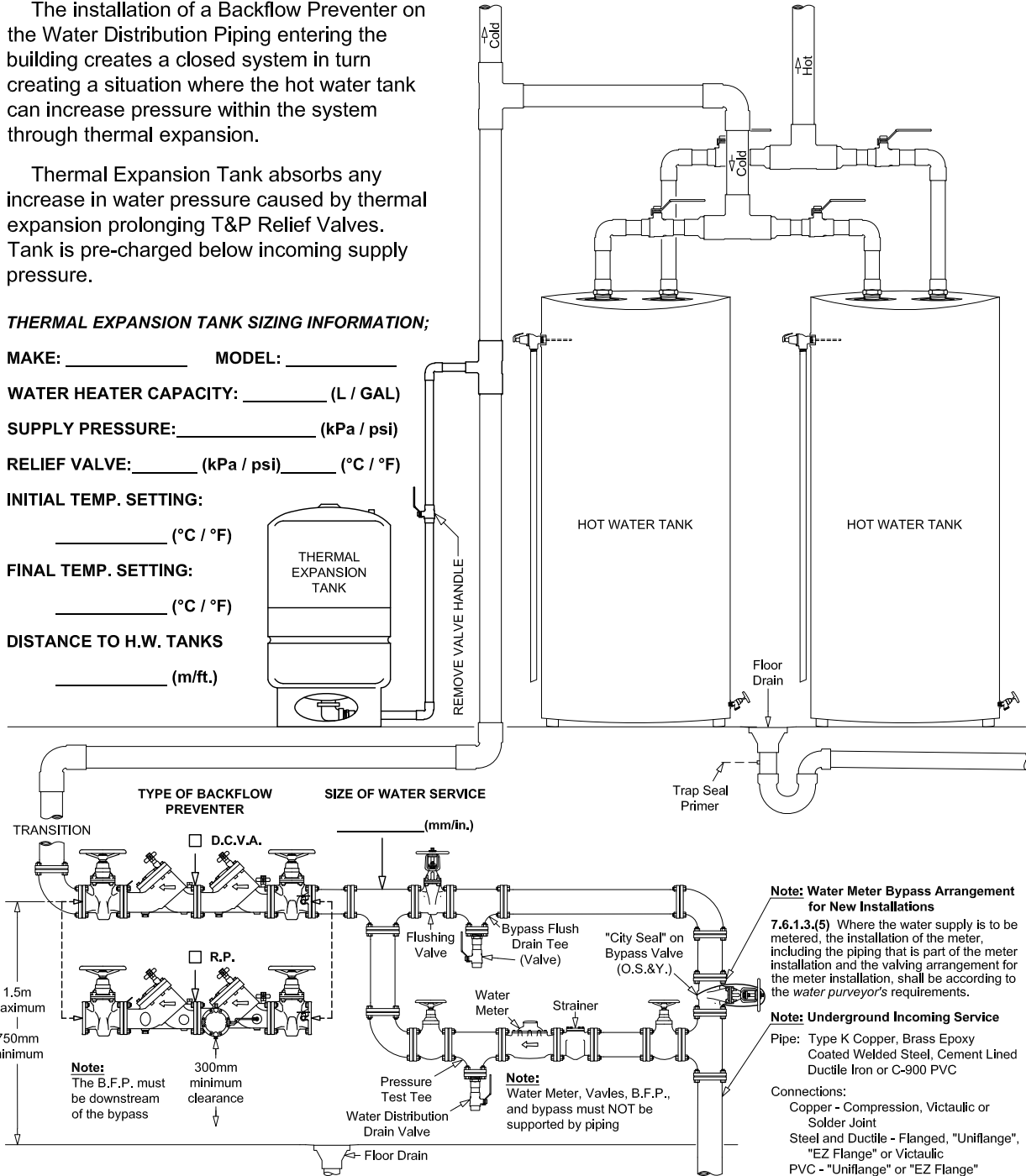
- (i) an expansion tank designed for use on the cold or hot potable water system, or
- (ii) a thermal relief valve piped to a drain forming an air break conforming to CSA B125, "Plumbing Fittings,".

The installation of a Backflow Preventer on the Water Distribution Piping entering the building creates a closed system in turn creating a situation where the hot water tank can increase pressure within the system through thermal expansion.

Thermal Expansion Tank absorbs any increase in water pressure caused by thermal expansion prolonging T&P Relief Valves. Tank is pre-charged below incoming supply pressure.

**THERMAL EXPANSION TANK SIZING INFORMATION;**

MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_  
 WATER HEATER CAPACITY: \_\_\_\_\_ (L / GAL)  
 SUPPLY PRESSURE: \_\_\_\_\_ (kPa / psi)  
 RELIEF VALVE: \_\_\_\_\_ (kPa / psi) \_\_\_\_\_ (°C / °F)  
 INITIAL TEMP. SETTING:  
 \_\_\_\_\_ (°C / °F)  
 FINAL TEMP. SETTING:  
 \_\_\_\_\_ (°C / °F)  
 DISTANCE TO H.W. TANKS  
 \_\_\_\_\_ (m/ft.)



**Note: Water Meter Bypass Arrangement for New Installations**  
 7.6.1.3.(5) Where the water supply is to be metered, the installation of the meter, including the piping that is part of the meter installation and the valving arrangement for the meter installation, shall be according to the water purveyor's requirements.

**Note: Underground Incoming Service**  
 Pipe: Type K Copper, Brass Epoxy Coated Welded Steel, Cement Lined Ductile Iron or C-900 PVC  
 Connections:  
 Copper - Compression, Victaulic or Solder Joint  
 Steel and Ductile - Flanged, "Uniflange", "EZ Flange" or Victaulic  
 PVC - "Uniflange" or "EZ Flange"

**Note:** The B.F.P. must be downstream of the bypass  
 300mm minimum clearance  
**Note:** Water Meter, Valves, B.F.P., and bypass must NOT be supported by piping